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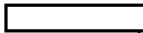
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June 15, 1966

NPIC  
Assistant for Plans and Development  
Washington, D.C.

Attention: 

Dear Sir:

The work on Project Wednesday was planned to be accomplished in four phases in accordance with our original proposal to you. Sufficient progress has now been made in Phase I, to permit the planning of the next phase. Phase I covered the determination of requirements and conceptual design. Phase II will cover the system design and specification. Attached is a proposal for Phase II containing a statement of the specific items of work to be performed. The estimated price for this work is  as shown in the cost breakdown, which is also attached.

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As submitted, the Phase II proposal deals primarily with the digital processing aspects of the over-all problem. Phase I results indicate that it is not practical to reduce all data to digital form and, therefore, that the handling of information in image form is an essential requirement of an integrated information system. It is our intent to submit an appendix to the attached proposal outlining our approach to the image handling problem.

We are prepared to provide any supporting data you might require and to elaborate upon any of the proposed tasks or approaches. Please do not hesitate to contact me if you have any questions.

Very truly yours,

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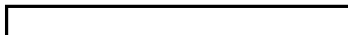
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PROPOSAL FOR PHASE II  
OF  
INTEGRATED INFORMATION SYSTEM (IIS)

June 15, 1966

I. Introduction

Phase I of the program for the development of an Integrated Information System (IIS) includes the study of the current operations of the Center, the establishment of information requirements, and the generation of functional specifications for the IIS. Phase II of this program is to be concerned with the detailed design and description of the system and the plan for its implementation. This proposal for Phase II is being submitted at the present time so that work can flow from Phase I to Phase II without delay. Work has been scheduled in accordance with the objective of achieving system operation in the Spring of 1968.

The results of the Phase I effort provide a Conceptual Design that defines the functions to be performed by the various components of the system. Starting with these results a detailed design of the system will be generated. The work on the first task of the detailed design effort will be to specify and analyze alternative ways of accomplishing the functions identified in the Conceptual Design. These alternatives will include such things as the physical and logical form of files, division of tasks between hardware and software, types of hardware for performing the functions, various algorithms for manipulating data, and the structures of query languages and programming systems. The work performed on task 2 will establish and describe the detailed system configuration and task 3 will

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provide detailed specifications for system components. Task 4 covers the effort required to develop a detailed system implementation plan.

It is anticipated that some system components will have long lead times. The procurement of such components should be started prior to the end of Phase II if system operation is to be achieved by the Spring of 1968. Therefore, some of the component specifications will be issued starting in the fifth month of Phase II, even prior to issuing the report describing the system. The relationship of such components to the overall system will be clearly indicated.

The following sections contain a proposed statement of work for the Phase II effort, a schedule for carrying out this program, and a cost summary.

## 2. Statement of Work

The Contractor proposes to supply direct engineering and support manpower, material and facilities to accomplish the tasks described below over an eight and one half (8 1/2) month period on a cost-plus-award fee basis.

### A. Study Tasks

- (1) Develop alternative methods for performing the functions of the system defined by the Conceptual Design resulting from Phase I and evaluate these methods through analysis and, where applicable and necessary, by means of simulation.

As a minimum, the system shall have the capability to:

- a. Maintain and provide access to a data base consisting of:

Target Header Data

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Textual information about targets

Photo Reference Data

Mensuration Support Data

Indices to Collateral Data Where Practical

Indices to the Location of Photographic Data

- b. Provide both on-line and off-line support to mensuration and other scientific or mathematical procedures.
  - c. Generate reports, based upon information entered into the system and information stored in the data base, in accordance with content and format descriptions provided at generation time.
  - d. Generate mission coverage plots, statistics, and target lists.
  - e. Provide information necessary for the controlled circulation of materials, both documents and film.
  - f. Generate summaries and statistical information utilizing the stored data base or new raw data as input.
  - g. Provide for the conversion of graphical and textual material to machine readable form.
  - h. Function in harmony with the automated and non-automated functions of the Center, and with automated and non-automated systems outside the Center that interface with the IIS.
- (2) Establish and describe the detailed system configuration including the overall system operation, a brief description of the system components and the interfaces between components.

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- (3) Prepare detailed specifications for system components including hardware, computer programs, files, procedures, and facilities. Detailed specifications will conform to documentation standards agreed to by the technical monitor and the contractor.
- (4) Prepare a detailed system implementation plan. This plan shall include schedules and budgetary costs for procurement and installation of hardware and facilities, generation of computer programs and files, training, system tests and the generation of final system documentation.

B. Reports

In addition to continuing the regular Monthly Progress Letters required by the basic contract, the Contractor shall produce the following technical reports during the conduct of Phase II of the IIS study program:

- (1) Detailed System Description for the IIS. The body of this document reports the results of Task 2 above. The detailed specifications created under Task 3 will be issued as Appendices to this report with first attention being given to components requiring long lead times for procurement (or "in-house" generation).
- (2) A Detailed System Implementation Plan reporting the results of Task 4.

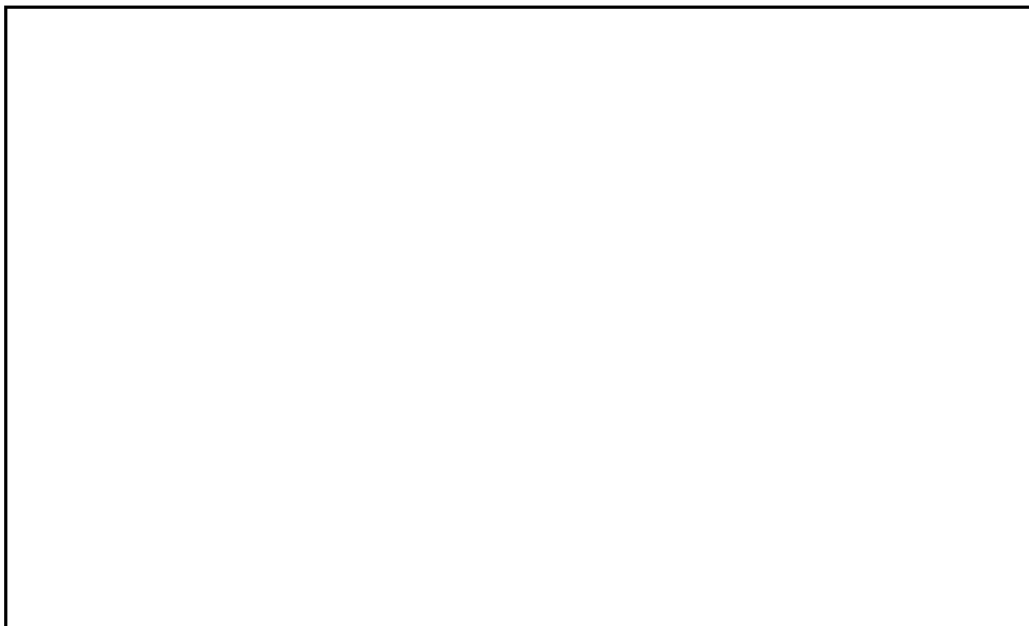
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3. Personnel

The following persons will be assigned to Phase II of the Program (asterisk indicates that resume is attached):

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4. Schedule

Activities undertaken in fulfillment of the Statement of Work will be accomplished in accordance with the following schedule:

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Month

0 1 2 3 4 5 6 7 8 9

TASKS

1. Develop and Evaluate Alternatives

\_\_\_\_\_

2. Prepare System Description

\_\_\_\_\_△

3. Prepare Detailed Component Specifications

\_\_\_\_\_△\_\_\_\_\_△

4. Prepare Implementation Plan

\_\_\_\_\_△

REPORTS



1. Detailed System Description for IIS

2. Appendices to System Description (Component Specifications)

3. Detailed System Implementation Plan

5. Cost Summary

Listed below is a summary of the costs that are estimated to be required in order to carry out the Phase II study.

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